LIFE HISTORIES OF NORTH AMERICAN GEOMETRIDAE, - XXXV.

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Coryphista badiaria Hy. Edw.

Egg. Elliptical, rounded, two sides flattened, wedge shaped, the large end truncate for a small space, all without sharp angles; coarsely hexagonally reticulate, the lines raised, broad, rounded, the spaces between forming flat hexagons, rather regular; all pale yellow; size .9 × .6 × .5 mm.

Stage I. Head round, erect, scarcely bilobed; luteous, shining; ocelli black, mouth brown; width about 4 mm. Body cylindrical, normal, short, the segments not elongate but the ends somewhat contracted; all translucent yellowish, the food showing faintly green; not shining. No shields differentiated; tubercles and setae minute, black. Segments slightly folded, whitish; feet pale, normal; no markings. Later very faint, fine, whitish subdorsal and lateral lines, joints 10 to 13 subdorsally shaded with dull reddish.

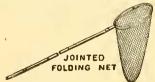
Stage II. Head round, thick, erect, slightly bilobed, pale pinkish flesh color; width .7 mm. Body moderate, rather thick, incisures a little depressed, uniform, smooth. Tubercles slightly elevated, a little blackish; setae rather long, dark. Olivaceous green, a fine addorsal whitish line; a broad, subdorso-lateral, olive gray shade-band; substigmatal band broad, whitish; venter dusky shaded. Feet pale sordid green, normal.

Stage III. Head rounded, bilobed, free, pale red, yellowish in the sutures; width 1.2 mm. Body cylindrical, robust, uniform, smooth; black, shields a shade redder; dorsal space diluted luteous. Addorsal and subdorsal broken, narrow obscure white lines; hroad stigmatal white line, from tubercle iii to v, geminate, luteous filled, yellow about the spiracle; a white line to anal foot. Venter somewhat diluted. Tubercles small, round, black; feet black, abdominal claspers reddish. Setae dark, fine, obscure. Not shining.

Stage IV. Head shining orange; width 2 mm. Body robust, the ends somewhat smaller. Purplish black, dorsal lines broken, nearly absent; stigmatal white band enlarged on the segments a little, yellow at the spiracles, luteous dotted centrally. Feet, except the shield of joint 13, reddish. Tubercles small, black; a white line on the foot joint 13.

Pupation in the ground, or between leaves. Food plant. The larvae were found only on Berberis repens and would eat no other plant. Several brooded; imago emerged June 18th. Eggs from captured Q Q June 20 and July 7th. Larvae from various places in the foothills of the Rocky Mountains; back of Golden and Boulder, Colorado and in the Platte Canyon.

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